

Form PTO-1449 (modified)

List of Patents and Publications for Applicant's

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.

UUMO:003USC1

Serial No.

10/655,547

Applicant

Robert Michael Roberts *et al.*

Filing Date:

September 4, 2003

Group:

Unknown

U.S. Patent Documents

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Foreign Patent Documents

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Other Art

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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	2001/0024799	09/27/01	Jordan <i>et al.</i>	435	7.9	01/17/01
	A2	4,271,140	07/02/81	Bunting	436	500	08/01/78
	A3	4,895,804	01/23/90	Bostwick <i>et al.</i>	435	240.27	08/24/87

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	99/06038	02/19/99	PCT			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	Atkinson <i>et al.</i> , "Characterization of placental-specific binucleate cell glycoproteins possessing a novel carbohydrate," <i>J. Biol. Chem.</i> , 268(35):26679-26685, 1993.
	C2	Birch and Loh, "Homology cloning of aspartic proteases from an endocrine cell line using the polymerase chain reaction," <i>Biochem. Biophys. Res. Commun.</i> , 177(3):920-926, 1993.
	C3	Cameron and Malmo, "Evaluation of an ultrasonic doppler probe for pregnancy diagnosis in cattle," <i>Austr. Vet. J.</i> , 70:109-111, 1993.
	C4	Davies, "The structure and function of the aspartic proteinases," <i>Ann. Rev. Biophys. Chem.</i> , 19:189-215, 1990.
	C5	Garabayo <i>et al.</i> , "Caprine pregnancy-associated glycoproteins (PAG): Their cloning expression and evolutionary relationship to other PAG," <i>Mo. Reprod Dev.</i> , 57:311-322, 2000.
	C6	Gerrie <i>et al.</i> , "Pregnancy-associated alpha-2 glycoprotein: development of a sensitive enzyme-linked immunoassay and comparison of serum concentrations in adults and children," <i>Clinical Chimica. Acta</i> , 155:51-60, 1986.
	C7	Green <i>et al.</i> , "Bovine pregnancy-associated glycoproteins (PAG) exhibit distinct expression patterns during gestation," <i>Biol Reprod</i> , 60(Suppl 1):497, 1999.

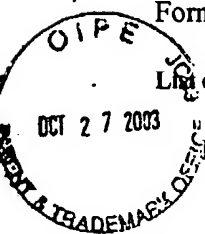
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EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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<i>Ja</i>	C8	Green <i>et al.</i> , "Identification of a family of Kunitz domain proteins expressed in bovine and ovine trophoblast," <i>Biol Reprod</i> , 58 (Suppl 1):310.
	C9	Green <i>et al.</i> , "Identification of a new aspartic proteinase expressed by the outer chorionic cell layer of the equine placenta," <i>Biol. Reprod.</i> , 60:1069-1077, 1999.
	C10	Green <i>et al.</i> , "Pregnancy-associated bovine and ovine glycoproteins exhibit spatially and temporally distinct expression patterns during pregnancy," <i>Biol. of Repro.</i> , 62:1624-1631, 2000.
	C11	Green <i>et al.</i> , "Pregnancy-associated glycoproteins of the horse," <i>Biol Reprod</i> , 50 (Suppl 1):152, 1994.
	C12	Green <i>et al.</i> , "Pregnancy-associated glycoproteins: A family of catalytically inactive aspartic proteinases," <i>Mol Biol Cell</i> , 6 (Suppl 1):454, 1995.
	C13	Green <i>et al.</i> , "The establishment for an ELISA for the detection of pregnancy-associated glycoproteins (PAGs) in the serum of pregnant cows and heifers," Departments of Animal Sciences and Biochemistry, University of Missouri-Columbia.
	C14	Guillomot, "Cellular interactions during implantation in domestic ruminants," <i>J. Reprod. Fertil.</i> , 49(Suppl.):39-51, 1995.
	C15	Guruprasad <i>et al.</i> , "Comparative modeling and analysis of amino acid substitutions suggests that the family of pregnancy-associated glycoproteins includes both active and inactive aspartic proteinases," <i>Protein Engin.</i> , 9:849-856, 1996.
	C16	Haig, "Genetic conflicts in human pregnancy," <i>Rev. Biol.</i> , 68:495-532, 1993.
	C17	Hughes <i>et al.</i> , "Adaptive diversification within a large family of recently duplicated, placentally expressed genes," <i>Proc. Natl. Acad. Sci., USA</i> , 97:3319-3323, 2000.
	C18	Inoue <i>et al.</i> , "Aspergillus niger var. Macrosporus proteinase B. cDNA cloning, expression, and activation of the proteinases, <i>Aspartic Proteinases</i> , 581-587, 1995.
	C19	Ishiwata <i>et al.</i> , "Characterization of gene expression profiles in early bovine pregnancy using a custom cDNA microarray," <i>Mol Reprod Dev.</i> , 65(1):9-18, 2003.
<i>✓</i>	C20	King <i>et al.</i> , "Development of the bovine placenta from days 20 to 29 of gestation," <i>J. Reprod. Fert.</i> , 59:95-100, 1980.

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EXAMINER: <i>C/HW J. Chen</i>	DATE CONSIDERED: <i>11/24/04</i>
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<i>jr</i>	C21	Kiracofe <i>et al.</i> , "Pregnancy-specific protein B in serum of postpartum beef cows," <i>J. Anim. Sci.</i> , 71:2199-2205, 1993.
	C22	Li <i>et al.</i> , "Mutational analysis of the vesicular stomatitis virus glycoprotein G for membrane fusion domains," <i>J. Virol.</i> , 67(7):4070-4077, 1993/
	C23	Mialon <i>et al.</i> , "Detection of pregnancy by radioimmunoassay of a pregnancy serum protein (PSP60) in cattle," <i>Reprod. Nutr. Dev.</i> , 34:65-72, 1994.
	C24	Mialon <i>et al.</i> , "Peripheral concentrations of a 60-kDa pregnancy serum protein during gestation and after calving and in relationship to embryonic mortality in cattle," <i>Reprod. Nutr. Dev.</i> , 33:269-282, 1993.
	C25	Patel <i>et al.</i> , "Effect of fetal mass, number, and stage of gestation on pregnancy-specific protein B concentrations in the bovine," <i>Theriogenol.</i> , 44:827-833, 1995.
	C26	Patel <i>et al.</i> , "Plasma bovine pregnancy-associated glycoprotein concentrations throughout gestation in relationship to fetal number in the cow," <i>Eur. J. Endoc.</i> , 137:423-428, 1997.
	C27	Roberts <i>et al.</i> , "Glycoproteins of the aspartyl proteinase gene family secreted by the developing placenta," <i>Aspartic Prot., Struct., Funct., Biol., Biom., Impl.</i> , 231-240, 1995.
	C28	Roberts <i>et al.</i> , "Maternal Recognition of pregnancy," <i>Biol. Reprod.</i> , 54:294-302, 1996.
	C29	Roberts <i>et al.</i> , "New and atypical families of type I interferons in mammals: comparative functions, structures, and evolutionary relationships," <i>Prog. Nucl. Acid Res. Mol. Biol.</i> , 56:287-326, 1997.
	C30	Sasser <i>et al.</i> , "Characterizations of pregnancy-specific protein B in cattle," <i>J. Reprod. Fertil.</i> , 37(suppl.):109-113, 1989.
	C31	Sasser <i>et al.</i> , "Detection of pregnancy by radioimmunoassay of a novel pregnancy-specific protein in serum of cows and a profile of serum concentrations during gestation," <i>Biol. Reprod.</i> , 35:936-942, 1986.
	C32	Scott <i>et al.</i> , "Serum levels of pregnancy-associated alpha2-glycoprotein during pregnancy in autoimmune thyroid disease: relationship to disease activity," <i>Clinical and Experimental Immunology</i> , 59:564-570, 1985.
<i>✓</i>	C33	Szafranska <i>et al.</i> , "Porcine pregnancy-associated glycoproteins: new members of the aspartic proteinase gene family expressed in trophoblast, <i>Biol. Reprod.</i> , 53:21-28, 1995.

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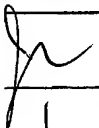




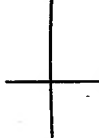





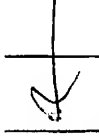
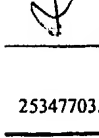
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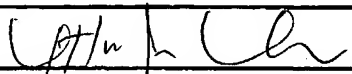
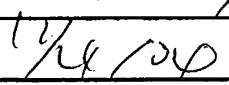
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	C34	Szafranska <i>et al.</i> , "The genes for porcine and bovine pregnancy-associated glycoprotein 2: Its structural organization and analysis of its promoter," <i>Mol. Reprod. Dev.</i> , 66:137-146, 2001.
	C35	Szenci <i>et al.</i> , "Evaluation of false ultrasonographic diagnoses in cows by measuring plasma levels of bovine pregnancy-associated glycoprotein 1," <i>Vet. Record</i> , 304-306, 1998.
	C36	Wedemayer, "Structural insights into the evolution of an antibody combining site," <i>Science</i> , 276(5319):1665-1669, 1997.
	C37	Wooding, "Current topic: the syneptitheliochorial placenta of ruminants: binucleate cell fusions and hormone production," <i>Placenta</i> , 13:101-113, 1992.
	C38	Xie <i>et al.</i> , "A novel glycoprotein of the aspartic proteinase gen family expressed in bovine placental trophoctoderm," <i>Biol. Reprod.</i> , 51:1145-1153, 1994.
	C39	Xie <i>et al.</i> , "Identification of the major pregnancy-specific antigens of cattle and sheep as inactive members of the aspartic proteinase family," <i>Proc. Natl. Acad. Sci., USA</i> , 88:10247-10251, 1991.
	C40	Xie <i>et al.</i> , "Multiple pregnancy-associated glycoproteins are secreted by day 100 ovine placental tissue," <i>Biol. Reprod.</i> , 57:1384-1393, 1997.
	C41	Xie <i>et al.</i> , "The diversity and evolutionary relationships of the pregnancy-associated glycoproteins, an aspartic proteinase subfamily consisting of many trophoblast-expressed genes," <i>Proc. Natl. Acad. Sci., USA</i> , 94:12809-12816, 1997.
	C42	Xie <i>et al.</i> , "The gene encoding bovine pregnancy-associated glycoprotein-1, an inactive member of the aspartic proteinase family," <i>Gene</i> , 159:193-197, 1995.
	C43	Xie <i>et al.</i> , "Trophoblast-specific processing and phosphorylation of pregnancy-associated glycoprotein-1 in day 15 to 25 sheep placenta," <i>Biol. Reprod.</i> , 54:122-129, 1996.
	C44	Zoli <i>et al.</i> , "Light and electron microscopic immunolocalization of bovine pregnancy-associated glycoprotein in the bovine placenta," <i>Biol. Reprod.</i> , 46:623-629, 1992.
	C45	Zoli <i>et al.</i> , "Purification and characterization of a bovine pregnancy-associated glycoprotein," <i>Biol. Reprod.</i> , 45:1-10, 1991.
	C46	Zoli <i>et al.</i> , "Radioimmunoassay of a bovine pregnancy-associated glycoprotein in serum: its application for pregnancy diagnosis," <i>Biol. Reprod.</i> , 46:83-92, 1992.

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